1.4 Normative References¶

[AUeventLIST] → Australian Government, Attachment B to CAP-AU-STD, Australian All-Hazards Event Code List, 30 June 2011. ¶

[dateTime] → N. Freed, XML Schema Part 2: Datatypes Second Edition, http://www.w3.org/TR/xmlschema-2/#dateTime, W3C REC-xmlschema-2, October 2004. ¶

[GDA94] → Australian Government, Geocentric Datum of Australia 1994. http://www.ga.gov.au/geodesy/datums/gda.jsp¶

[ISO 639.2] → Codes for the Representation of Names of Languages, 18 October 2010.¶
http://www.loc.gov/standards/iso639-2/php/English_list.php ¶

[namespaces] → T. Bray, Namespaces in XML, W3C REC-xml-names-19990114, January 1999. http://www.w3.org/TR/REC-xml-names/¶

[National Standards Framework (NSF)] → Australian Government Information Management Office, August 2009. http://www.finance.gov.au/publications/national-standards-framework/index.html¶

[RFC2046] → N. Freed, Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types, IETF RFC 2046, November 1996. http://www.ietf.org/rfc/rfc2046.txt ¶

[RFC2119] → S. Bradner, Key words for use in RFCs to Indicate Requirement Levels, IETF RFC 2119, March 1997. http://www.ietf.org/rfc/rfc2119.txt¶

[RFC2141] → R. Moats, URN Syntax, IETF RFC2141, May 1997. http://www.ietf.org/rfc/rfc2141.txt¶

[RFC3066] → H. Alvestrand, Tags for the Identification of Languages, IETF RFC 3066, January 2001. http://www.ietf.org/rfc/rfc3066.txt ¶

[RFC3121] → K. Best, A URN Namespace for OASIS, IETF RFC 3121, June 2001. http://www.ietf.org/rfc/rfc3121.txt ¶

2.4 "area" Element and Sub-elements

Any <area> sub-elements whose use is specified as REQUIRED, are only mandatory inclusions when the <area> element is to be included in a CAP-AU message.

CAP-AU SHALL represent geographic locations by reference to the Geocentric Datum of Australia 1994 (GDA94), which is the approved geographical coordinate system used in Australia. The Intergovernmental Committee on Surveying and Mapping advises that for most practical applications, **[GDA94]** coordinates can be considered the same as **[WGS-84]**. Interoperability with other CAP Profiles MAY be achieved by including **[WGS-84]** coordinates in conjunction with the preferred **[GDA94]** coordinates, as shown in the example in <area>.

area	OPTIONAL	Notes:	Technical	Example: Using **[GDA94]** coordinates in the <parameter> and **[WGS-84]** coordinates in the <circle>:
		1) MUST include a minimum of one recognised <geocode> value.		`<info>`
				`....`
		2) To maximise effectiveness to the public, the use of one <area> element per <info> element is RECOMMENDED.		`<parameter>` `....<valueName>layer:CAP-`

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	3) Where multiple <area> elements are used, consolidation of <area> elements into as few <area> elements as possible is RECOMMENDED.
	
	4) Area descriptions (like events) MUST be translated by the message producer in cases where the name is not derived from the preferred Location Reference source to ensure the intended audience for the message recognises the area being described.
	
	5) In the case of both single and multiple <area> elements, each <areaDesc> MUST have one value and will be in the language of the <info> element.
	
	6) In cases of multiple <area> elements, each <area> element SHALL differ by their <areaDesc> value and recognised <geocode> value(s), without additional parameterisation.
	
	7) It is RECOMMENDED that an associated geospatial value for the <polygon> or <circle> elements be included in the <area> element as well.
		`AU:GDA94circle</valueName>`
		`....<value>>-35.123,150.727</value>`
		`</parameter>`
		`...<area>`
		`......<areaDesc>Jervis Bay, NSW</areaDesc>`
		`...... ...`
		`......<circle>-35.123,150.727 10</circle>`
		`......<geocode>`
		`........<valueName>ISO 3166-2</valueName>`
		`........<value>AU-NSW</value>`
		`......</geocode>`
		`...</area>`
		`</info>`
		
		Where: -35.123,150.727 is the Lat/Long for the area near Jervis Bay; and 10 is the radius value in kilometres *(Note there is a space character separating the radius value from the lat/long).*